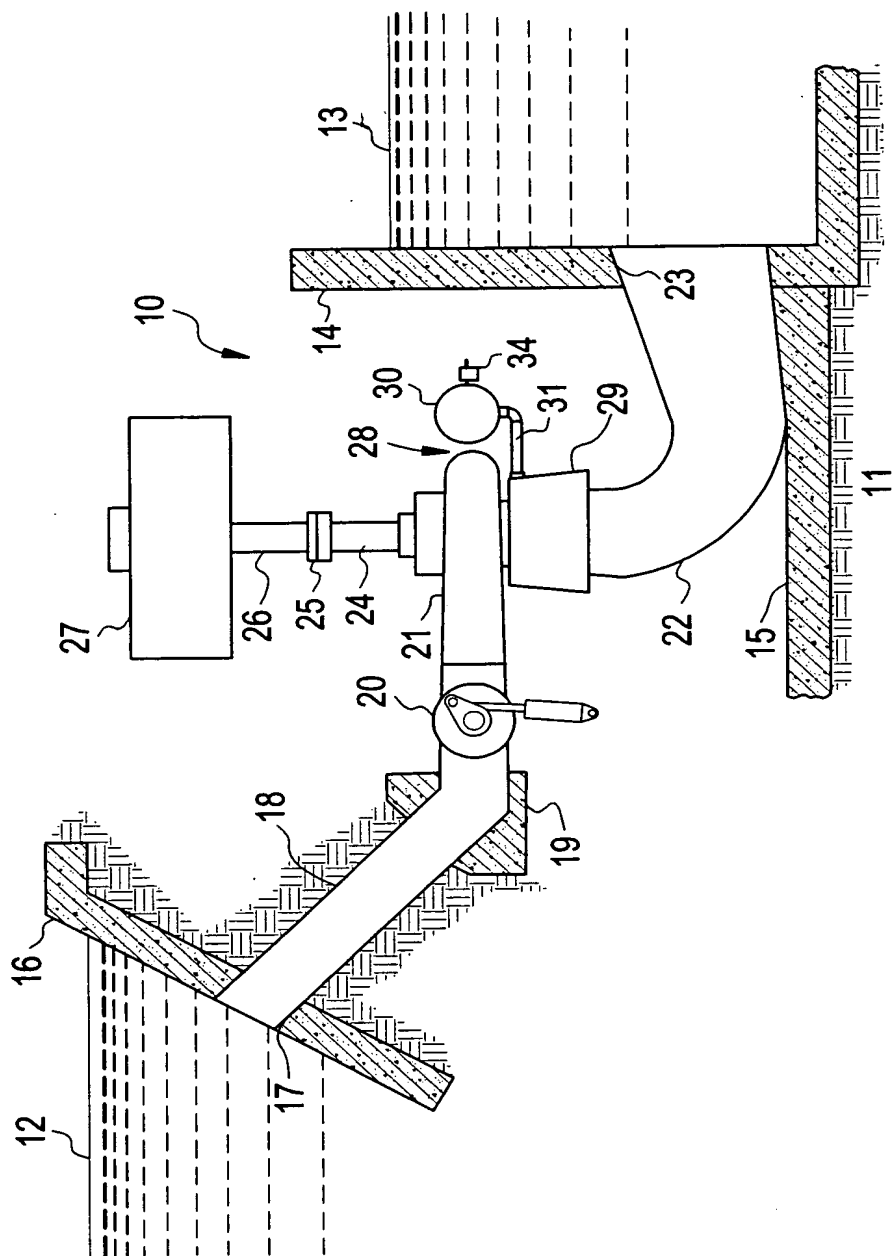


FIG. 1



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FIG. 2

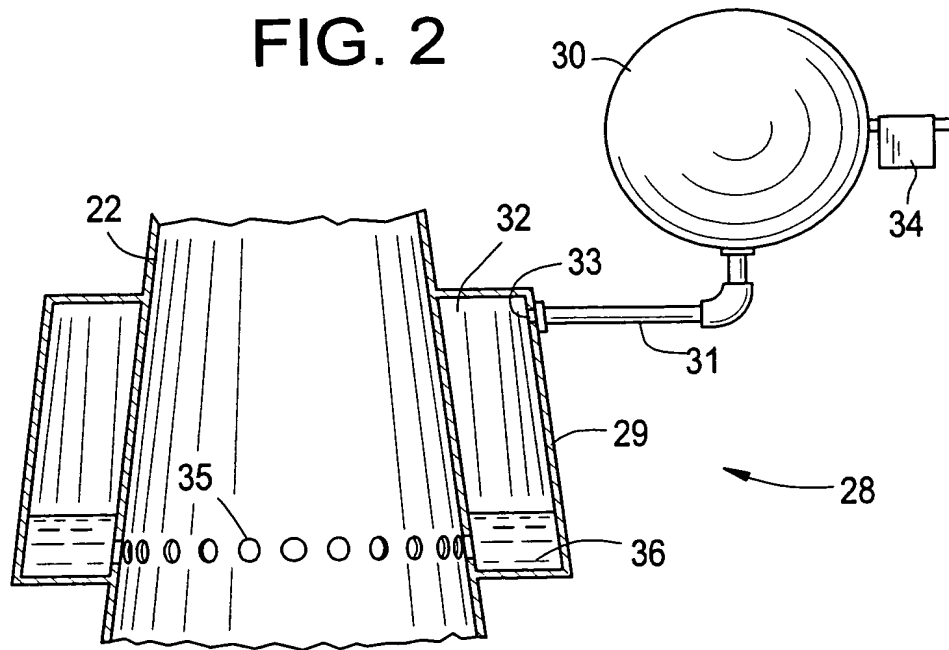
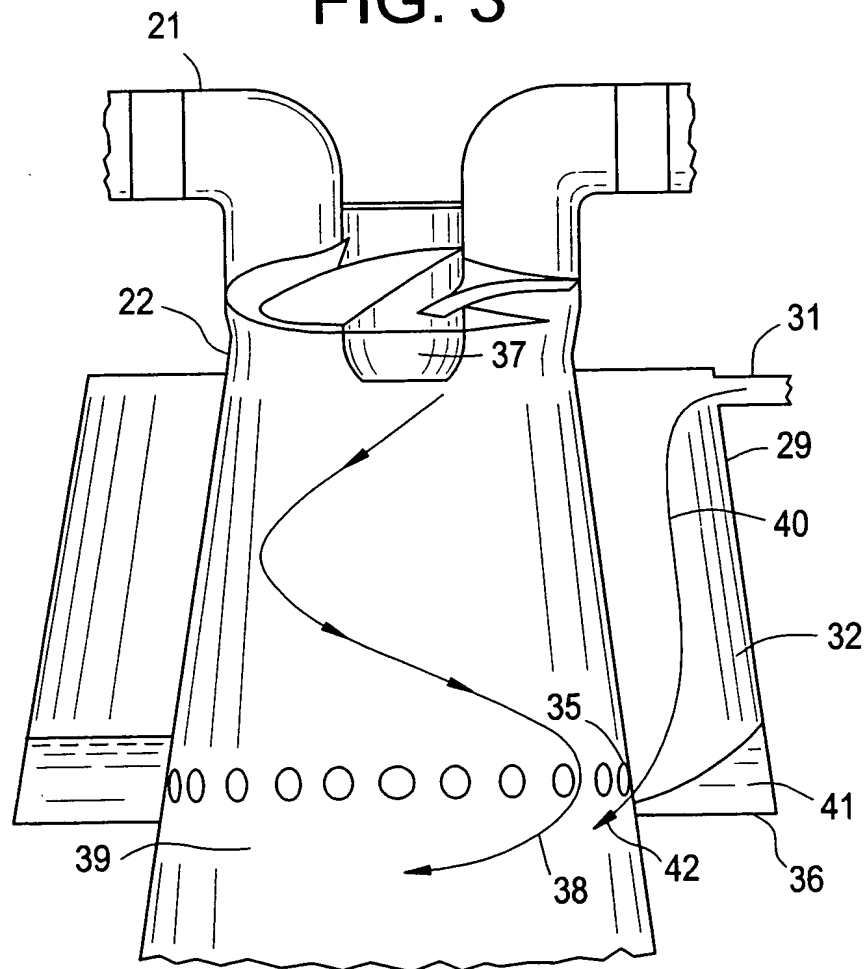


FIG. 3



The diagram illustrates a turbine generator system (100) and its associated monitoring and control infrastructure. The turbine generator (100) consists of a rotor (121) with a shaft (124) and a stator (126). The rotor is supported by radial bearings (136, 140) and axial bearings (132, 134). A box labeled "Radical vibration proximitly probes (2 per radial bearing)" (142) is connected to the radial bearings. The stator is connected to a "Compressor or air injection means" (160) via a line (148). The system is monitored and controlled by a computer system (154) connected to a "Hub" (152). The computer system (154) is connected to a "Relay Outputs" block (158) via a line (156). The "Hub" (152) is connected to the "Compressor or air injection means" (160) via a line (150). The computer system (154) is also connected to a "MW, MVAR, field & stator current (from external instrumentation or control system)" block (144) via a dashed line (146). The "Relay Outputs" block (158) is connected to the "Compressor or air injection means" (160) via a line (158).

FIG. 5

